

## CHAPTER V

### CONCLUSIONS AND RECOMMENDATIONS

#### A. Conclusion

1. The quality of Science Virtual Test shows that the test item can be used as the instrument to assess students' critical thinking on the topic of digestive system for 8<sup>th</sup> grade. The test item covers 8 elements or 26 sub-elements of Inch's critical thinking. The validity, reliability, and readability test of the instruments already accepted to be the instrument of students' critical thinking. While, discriminating power and item distractor can be improved considering the limitation owned by this test item.
2. Students do the test in conducive environment, they don't have any problem when access the Science Virtual Test, they can easily input their identity, they can easily edit their answer, they can easily submit their answer, they don't have any problem receiving their result from Science Virtual Test and they don't have any problem with the use of Science Virtual Test. But the lack of school lab facilities makes it difficult for students to fill out questions that contain videos. This technical problem can be handled using additional laptop and speaker.
3. Students' impression shows that students mostly have a good experience after finishing their test using Science Virtual Test. Students did not face technical problem when using Science Virtual Test. Students prefer to use Science Virtual Test (Computer-Based Test) rather than paper based test as the type of their test. Students agree that the media presented in Science Virtual Test is already good.
4. The average score of critical thinking of 8<sup>th</sup> grade students is 59.15 and it is categorized into moderate level. The element that has a highest achievement is point of view and lowest achievement is concept. The critical thinking of students highly performed in the sub topic of digestive system disease.

## **B. Recommendation**

Based on the result of the research, there are several recommendation for further research in implementing science virtual instrument to assess student's critical thinking, as following:

1. For Teacher
  - a. Before implementing Science Virtual Test, it is better to prepare all things that are needed by students in implementing Science Virtual Test, such as facility.
  - b. Critical thinking elements that are still lacking in students can be a reference for teachers to determine the appropriate learning activity to improve students' critical thinking
2. For Other Researcher
  - a. Science Virtual Test as the instrument in this research already valid and reliable and it can be use to assess students' critical thinking in digestive system topic. But it is better to revise and improve the item before it is used, so that the test item has the higher quality.
  - b. Other similar research can be done to explore more, find flaws in the implementation of Science Virtual Test and finally improve the quality of Science Virtual Test.
  - c. Other similar research can be done by improving the topic or theme of the questions especially in science subjects in order to provide the instruments to assess students' critical thinking in variety of topic.
  - d. This research can be use as a reference for research that is relevant